## ABSTRACT

A method for producing vegetable oil fuel with low viscosity, including a transesterification step $P_1$ with respect to vegetable oil with triglyceride structure having unsaturated fatty acid, an ozone treatment step $P_2$ with respect to unsaturated fatty acid methyl ester generated in the transesterification step $P_1$, and a reduction step $P_3$ with respect to the ozonide generated in the ozone treatment step $P_2$.